



Ø BEAT

COLO. SPRINGS,
COLORADO

AUGUST 1984

FLASH FLASH FLASH FLASH FLASH FLASH FLASH FLASH FLASH FLASH

THE FOLLOWING IS DUE TO THE COURTESY OF JIM, WA9ABB WHO COPIED AND SENT TO YE
OLDE EDITOR THE BULLETIN FROM WIAW;

The FCC has approved the band expansion docket, PR Docket 82-83, and also granted the petition, RM 4228, filed by Randall F Soball, KH6XX, allowing phone operation on 7075 to 7100 in the state of Hawaii. See the ARRL letter, Nov, 11, 1982 for further details.

EFFECTIVE 0001 UTC, SEPTEMBER 1ST, 1984, THESE WILL BE THE NEW HF RADIOTELEPHONE SUBBANDS.

3750 to 3775 kHz - Extra class
3775 to 3850 kHz - Advanced & Extra class
3850 to 4000 kHz - General, Advanced & Extra class

21200 to 21225 kHz - Extra class
21225 to 21300 kHz - Advanced & Extra class
21300 to 21450 kHz - General, Advanced & Extra class

28300 to 29700 kHz - General, Advanced & Extra class

With regard to the 40 meter band, FCC concurs with ARRL that phone band expansion here would be detrimental to CW operations. However, the Commission will allow phone operation on 7075 to 7100 kHz in Hawaii and areas near Region 3, OBZ 3 Alaska.

Remember that these new privileges are NOT available until 0000 UTC, Sept. 1st, 1984.

In summary, the FCC adopted the plan as submitted in the ARRL's comments, with the addition of the expanded phone operation at 7075 to 7100 kHz in certain geographic areas near Region 3. Details will be in the next issue of the ARRL Newsletter and in the September QST.

#####

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ZERO BEAT is published monthly in the interest of the the members of the Pikes Peak Radio Amateur Association Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Frank Drake KL7IPV, 4964 Harvest Rd. Colorado Springs, CO 80917 597-2406

FROM THE DESK OF "YE OLDE EDITOR"

Welcome to the club's new Publicity Chairman. He is Mark Stang, WB9NFE. Mark is going to school full time. Mark is now working also. Mark's wife, Cindy, works at Penrose Hospital. Mark has been active on two meters and, when funds permit, will be on HF also. This month the computer program will be more light-hearted (read "game") then the past. I hope that you who have tried to use those I've run the last couple of months got them to work for you. I would like to see someone submit a program for me to run in the newsletter. I am now receiving complimentary newsletters from about five other clubs. If you have a club newsletter from an area you've moved from, get a copy to me and I'll run something from it to let our members know what goes on in the rest of the world of amateur radio. It is amazing what the other clubs do to raise funds, have fun and promote their clubs in their communities. I will be making some minor changes in the format of this newsletter, a little at a time. If you see something you like, or don't like, let me know. I want you to like and enjoy this newsletter and need feed back to gauge how its going. Your input DOES count! Until next month, keep those cards and letters coming. 73, Frank.

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LETTER LETTER LETTER LETTER LETTER LETTER LETTER LETTER

To the amateurs of the Rocky Mountain Division, ARRL:

Please accept my sincere expression of appreciation for the presentation of a plaque from the Rocky Mountain Division amateurs denoting a quarter-century of representation on the board of the American Radio Relay League.

Vy 73,
Carl L. Smith, WØBWJ

FROM "QSP"- NEWSLETTER OF THE ROCKY MOUNTAIN VHF SOCIETY - APRIL 1984
"Packet Nets - ADØI"

At the packet meeting in Denver, it was decided to have 2 packet nets. Both are Sundays evenings. The first is at 7PM on 145.7 WBØFQB-1 digipeater. The second is at 8PM on 146.13/73 and will start using voice mode.

Above bulletins about Oscar and Packer Radio have been collected and then transmitted through the WØIA packet repeater (146.13/73) and bulletin board system.

EDITOR'S COMMENT- FOR THOSE OF YOU INTERESTED IN PACKET RADIO, BE AT THE NEXT PPRAA MEETING ON AUG 8th. IF YOU HAVE THE CAPABILITY, GET INTO ONE OF THESE NETS. THE DAYS OF RADIO WITHOUT COMPUTERS IS JUST ABOUT HISTORY!

MEETING MEETING MEETING MEETING MEETING MEETING MEETING MEETING MEETING

The next regularly scheduled meeting of the Pikes Peak Radio Amateur Asso will be on August 8th, at Giuseppe's Depot at the Train Station on #10 S. Sierra St. at 7:30PM. The program for this month will be on Packet radio. Don't miss this one, see what state-of-the-art is doing to radio these days!

GENERAL & BOARD MINUTES GENERAL & BOARD MINUTES GENERAL & BOARD MINUTES

Due to non arrival of minutes (delayed flight, mail, whatever) there are no minutes published in this month newsletter. For info on what transpired in the last meetings, please plan to attend the next general meeting.

FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE

ROHN TOWER HBX-48 - 48' FREE STANDING, 10 SQ.FT. CAPACITY, GOOD CONDITION. NEEDS BASE STUBS TO ERECT. \$200.

WILSON SYSTEM THREE TRIBANDER W/40 METER KIT. \$150

KENWOOD TWINS - R599D & T599D. \$450.

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AMECO "PT-2" 1.8 TO 54 MHz REC. PREAMP. \$35.

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PORTA-COM portable computer terminal. has built in: letter quality printer, 64 character ASCII keyboard plus numerical keyboard, acoustical coupler, and comes in its own carrying case. Also includes 3/4 box of 8 1/2" paper. This is a used unit but in very good shape. This will enable you to get into bulletin boards. \$500 or make offer. Call Frank, KL7IPV - 597-2406.

CLUB PICNIC CLUB PICNIC CLUB PICNIC CLUB PICNIC CLUB PICNIC CLUB PICNIC

The club picnic will be held Aug 12th, at the Black Forest Pavillion 1. The club will furnish hamburgers, corn-on-the-cob, potatoe chips, beer and pop. This event is open to all club members and their families(no neighbors please) to enjoy. The site (see map) can be reached a couple of ways. Either go out T-Gap to Black Forest Rd. and then north to Shoop Rd. Then west to the Black Forest Recreation Area. Take the entrance road north & you will come to the parking lot and pavillion. The other route is north on Academy to Hwy 83, then north to Shoop and east to the site.

NOTICES NOTICES NOTICES NOTICES

CHANGE OF CALLSIGN: NØPPP - James Lind
6220 Snowbird Dr., C.S. 80918
Ph# 590-9586
Was: WD5FYT

ANYONE INTERESTED IN ATV SHOULD CONTACT
Al, NØCMW; Dick, WAØWYV; Charlie,
KCØTI or Oak, KØROL.

If it's CW, it's communications.

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John WAØADV

CW

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Motorola UHF HT-220 hand held radios with accessories

Wilson VHF hand held 6 channels 1/5 watts ttpad

Wilson UHF hand held 6 channels 1/2 watts tt pad, charger, case

Johnson Viking Valiant HF transmitter 160 thru 10 meters 300 watts

Johnson Invader HF SSB transmitter 80 thru 10 meters 200 watts

Hammarlund HQ215 Receiver Solid state all ham bands except 160

Motorola Maxar 80 VHF transmitter-receiver 2 channel 55 watts w/acc. PL

Redicom XF 742 UHF Duplex Radio telephone 6 channels 35 watts

Regency scanner 10 channels crystals 10band, VHF, UHF

Mosley Classic 36 Tri-Band beam

Dentron Doublet Ant 80 thru 10 450 ohm ladder feed line

Hustler 5BIV Vertical Ant 80 thru 10

HY-GAIN HY-POWER 18H vertical ant. 80 thru 10 needs mounting base

Rohn 25G tower 50', TB3HD thrust bearing, BPH 25G hinged base plate, and

25AC4 top section with flat top for TB3 bearing.

Motorola Base Station Cabinets 29"H x 13"D x 22"W

Motorola Base Station Cabinet 9"D x 30"H x 22"W

Large metal desk with Formica top, 6 drawers 36"D x 62"W x 30"H

Large metal table with Formica top & 1 drawer, 32"D x 62"W x 30"H (matches desk)

Metal table 34"D x 45"W x 30"H with Formica top and 1 drawer

Metal storage cabinet/work bench 36"W x 25"D x 87"H with doors

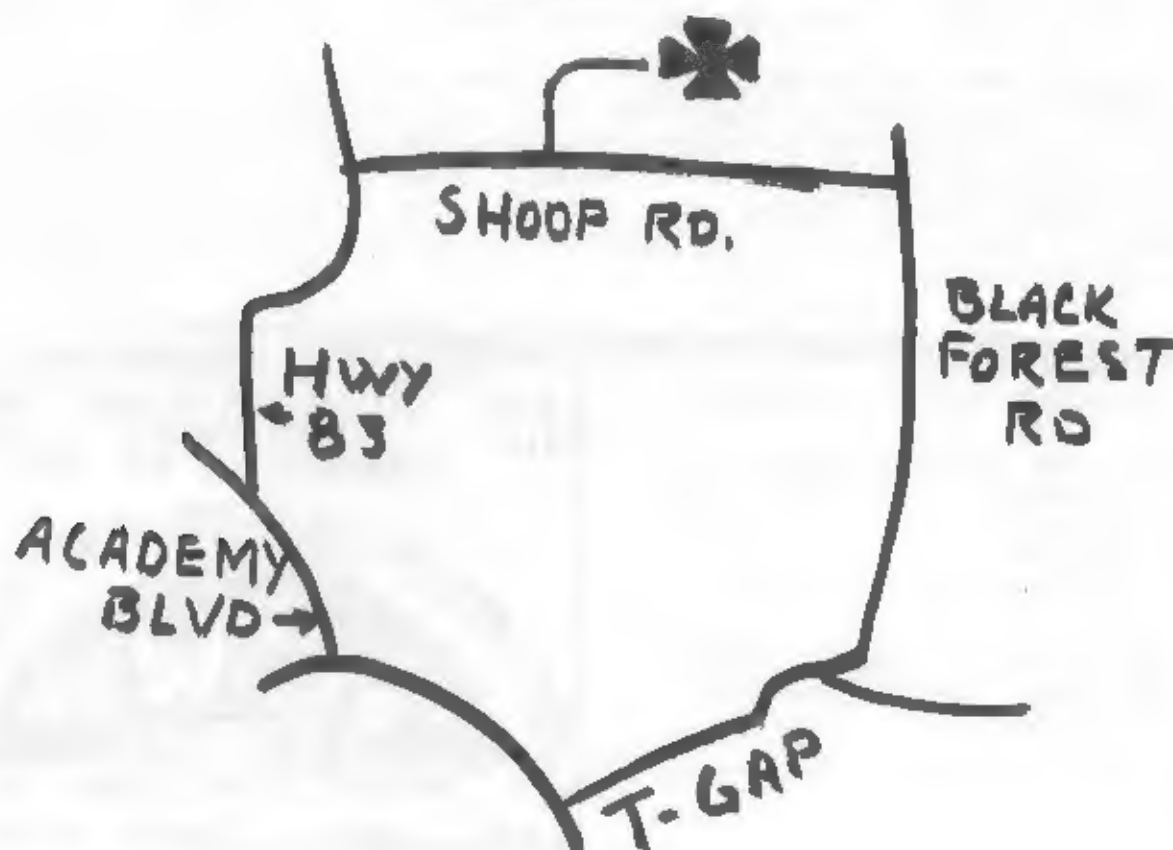
Rack cabinet skeleton 76" high, standard 19" mounting spacing

Rack cabinet with doors 76" high, standard 19" mounting spacing

Lots of other equipment and parts

WOCOW LEO 634-8912 anytime after 6:00PM 1209 E. Monroe CSC

- PICNIC MAP -



COMPUTER CORNER

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0 REM      R O C K E T   L A N D E R
2 PRINT:PRINT:PRINT:PRINT:PRINT:PRINT
5 OUT 2,26
10 P=1
20 REM ....P IS THE INPUT PORT NUMBER FOR YOUR KEYBOARD.....
30 REM
40 REM
50 PRINT "LUNER LANDING SIMULATIONS"
60 PRINT "~~~~~"
70 PRINT:PRINT "DO YOU WANT INSTRUCTIONS"
80 INPUT "(Type 0 for NO)";A
90 IF A=0 THEN 300
100 PRINT
110 PRINT"YOU ARE LANDING ON THE MOON AND HAVE TAKEN OVER MANUAL"
120 PRINT"CONTROL 500 FEET ABOVE A GOOD LANDING SPOT. YOU HAVE A"
130 PRINT"DOWNWARD VELOCITY OF 50 FT/SEC. 120 UNITS OF FUEL REMAIN."
140 PRINT
150 PRINT"HERE ARE THE RULES THAT GOVERN YOUR SPACE VEHICLE:"
160 PRINT"(1) AFTER EACH SECOND, THE HEIGHT, VELOCITY, AND REMAINING"
170 PRINT"    FUEL WILL BE REPORTED."
180 PRINT"(2) AFTER THE REPORT, A '?' WILL BE TYPED. ENTER THE"
190 PRINT"    NUMBER OF UNITS OF FUEL YOU WISH TO BURN DURING THE "
200 PRINT"    NEXT SECOND. EACH UNIT OF FUEL WILL SLOW YOUR DESCENT"
210 PRINT"(3) THE MAXIMUM THRUST OF YOUR ENGINE IS 30 FT/SEC/SEC OR"
220 PRINT"    30 UNITS OF FUEL PER SECOND"
230 PRINT"(4) WHEN YOU CONTACT THE LUNAR SURFACE, YOUR DESCENT ENGINE"
240 PRINT"    WILL AUTOMATICALLY SHUT OFF AND YOU WILL BE GIVEN A"
250 PRINT"    REPORT OF YOUR LANDING SPEED AND REMAINING FUEL"
260 PRINT"(5) IF YOU RUN OUT OF FUEL, THE '?' WILL NO LONGER APPEAR"
270 PRINT"    BUT YOUR SECOND BY SECOND REPORT WILL CONTINUE UNTIL"
280 PRINT"    YOU CONTACT LUNAR SURFACE.":PRINT
290 PRINT:INPUT "HIT RETURN TO CONTINUE...";N9
300 PRINT:PRINT:PRINT"BEGINING LANDING PROCEEDURE.....":PRINT
310 PRINT"G O O D   L U C K ! ! ! "
320 PRINT:PRINT
330 PRINT"SEC    FEET    SPEED    FUEL    PLOT OF DISTANCE"
340 PRINT
350 T=0:H=500:V=50:F=120
360 PRINT T,TAB(4);H,TAB(12);V,TAB(20);F,TAB(29);"I",TAB(H/12+29);""
370 INPUT B
380 IF B 0 THEN 510
390 IF B 30 THEN B=30
400 IF B F THEN B=F
410 V1=V-B+5
420 F=F-B
430 H=H-.5*(V+V1)
440 IF H =0 THEN 530
450 T=T+1
460 V=V1
470 IF F 0 THEN 360
480 IF B=0 THEN 500
490 PRINT:PRINT"***OUT OF FUEL***"
500 PRINT T,TAB(4);H,TAB(12);V,TAB(20);F,TAB(29);"I",TAB(H/12+29);""
510 B=0
520 GOTO 410
530 PRINT:PRINT"*****CONTACT*****"
540 H=H+.5*(V+V1)
550 IF B=5 THEN 580
560 D=(-V+SQR(V*V+H*(10-2*B)))/(5-B)

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570 GOTO 590
580 D=h/V
590 V1=V+(5-B)*D
600 PRINT " TOUCHDOWN AT";T+D;"SECONDS."
610 PRINT " LANDING VELOCITY =" ;V1;"FT/SEC"
620 PRINT F;"UNITS OF FUEL REMAINING."
630 IF V1 0 THEN 670
640 PRINT:PRINT"CONGRADULATIONS!!! A PERFECT LANDING!"
650 PRINT"YOUR LICENSE WILL BE RENEWED.....LATER."
660 GOTO 740
670 IF ABS(V1) 2 THEN 730
680 PRINT:PRINT" ***** SORRY, BUT YOU BLEW IT KIDO!!!!!"
690 PRINT" THIS WAS OUR ONLY CHANCE TO MAKE CONTACT WITH EXTRATRESTRIAL"
700 PRINT" BEINGS. NON-APPROPRIATE CONDOLENCES MIGHT BE SENT TO YOUR"
710 PRINT" NEXT OF KIN."
720 GOTO 740
730 PRINT:PRINT"WELL.....THAT WAS OK. BUT NOT TOO SPECTACULAR..."
740 PRINT:PRINT
750 PRINT "ANOTHER MISSION ANYONE"
760 INPUT "(Type 1 if YES)";A
770 IF A=1 THEN 300
780 PRINT:PRINT "CONTROL OUT. ";PRINT
790 END

```

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ANOTHER NOTICE ANOTHER NOTICE ANOTHER NOTICE ANOTHER NOTICE ANOTHER NOTICE

If you have signed up as a Volunteer Examiner and have received your V.E. accreditation manual from the ARRL, please contact Jake, NØCYR, so that he can put together a roster. If you have not signed up, you can still do so. Jake can also tell you about that.

MILEY'S RADIO

Jess K0TAA 719 W. 7th St. Florence, Colorado 81226 784-3040
Hours 8 to 6 Tuesday through Friday — Closed most weekends through the summer
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USED EQUIPMENT

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Azden PCS 3000 excellent condition w/TTT \$195.
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From the "Round Table" — The monthly Publication of the Denver Radio Club. Taken from the July, 1984 issue; Q.C.W.A. by Lou Harrington, W0LM.

Bash is vindicated! How times change. The FCC will now furnish the "test elements" for any or all classes of license along with a syllabus which covers all the subjects addressed by the questions. I don't know if there is any charge, but I hear that any of the places that sell Bash's books can furnish the FCC material at charge of \$2.50 or so. Ameco has a book with all of the questions and answers for the General class and will shortly publish books concerning the rest of the classes. What do I care.

Ed, note: I wonder how many other hams feel a little betrayed by the FCC action by doing what they have condemned Bash for? The more things change the more they are the same.)



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Ø BEAT

ALLG. 1984



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Frank Drake KL7IPV
4964 Harvest Lane
Colorado Springs, CO 80917



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